2021-2022

QUALITY CONTROL TEST REPORTS

Client: Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency: M/s. SS Enterprises (Prop. Sri Nagaraj M), Contractor, Bangalore.

Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

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QC ABSTRACT

Nameof Work: Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	1.75 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	1.14 Cum	1	3	Concrete Cube Compressive Strength	-
3	CC Blocks - 400x150x200	15.66 Sqm	1	1	Concrete Blocks Compressive Strength	-
4	Colour Glazed tiles	1.5 Sqm	1	1	-	-
5	CPVC 25mm	20.00 mtrs	1	1	-	-
6	CPVC 20mm	20.00 mtrs	1	1	-	-
7	Stoneware Pipe	10.00 Mtrs	1	1	-	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22 Date: 12.11.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.
NAME OF THE WORK	:	Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	October - 2021
DATE OF TESTING	:	10.11.2021 to 12.11.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

AE-12

Note:

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Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH No: 9501648630, GST IN:29CNWPD9510K1ZB, Email:civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22

Date : 12.11.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Date of Testing : 12.11.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

AE-12

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	132	13.20	22.10	77.9	75-100
1.18	185	18.50	40.60	59.4	55-90
600 Micron	150	15.00	55.60	44.4	35-59
300 Micron	224	22.40	78.00	22.0	8-30
150 Micron	162	16.20	94.20	5.8	0-10

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No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.

PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22

Date : 12.11.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.
Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.
Date of Testing : 12.11.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

AE-12

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2420	48.4	52.1	47.9	25-55
4.75	1956	39.1	91.2	8.8	0-10

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22

Date : 12.11.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Date of Testing : 12.11.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

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Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8250	55.00	56.23	43.77	30-70
10	3265	21.77	77.99	22.01	10-35
4.75	2830	18.87	96.86	3.14	0-5

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22

Date : 12.11.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Date of Testing : 12.11.2021

Material : Sand - Plastering

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	12	1.20	1.20	98.8	95-100
2.36	15	1.50	2.70	97.3	95-100
1.18	38	3.80	6.50	93.5	90-100
600 Micron	76	7.60	14.10	85.9	80-100
300 Micron	256	25.60	39.70	60.3	20-65
150 Micron	505	50.50	90.20	9.8	0-15

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22

Date : 15.11.2021

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

Name of the Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Date of Testing : 15.11.2021

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.3	265.3	4.42	2025.00	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	25.8	260.8	4.35	2150.00	
3	Block 3	24.9	264.5	4.41	2075.00	
4	Block 4	25.2	262.9	4.38	2100.00	

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22

Date: 25.11.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	: **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.
Name of the work	: Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.
Sample ID	: Cement Concrete for Plinth
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.11.2021	25.11.2021	8.135	329.3	14.64
2	18.11.2021	25.11.2021	8.154	335.8	14.92
3	18.11.2021	25.11.2021	8.149	346.5	15.40

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22 Date: 10.12.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Contractor	: **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.
Name of the work	: Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.
Sample ID	: Cement Concrete for Roof Slab
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

AE-12

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.12.2021	10.12.2021	8.165	335.2	14.90
2	03.12.2021	10.12.2021	8.134	345.6	15.36
3	03.12.2021	10.12.2021	8.145	329.3	14.64

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22 Date: 31.12.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Contractor : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

Name of the work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Sample ID : Cement Concrete for Roof Slab

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.12.2021	31.12.2021	8.144	500.2	22.23
2	03.12.2021	31.12.2021	8.156	489.6	21.76
3	03.12.2021	31.12.2021	8.138	476.8	21.19

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For CIVIL AIM CONSULTANTS & ENGINEERS,

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22 15.12.2021

Test Report Of Glazed Stoneware Pipes

Client	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP,
Agency	**M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.
Name of the work	Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.
Type of Sample	**Glazed Stoneware Pipe(150mm dia)SP-1 Class**
Techinical Reference	**As Per IS-651:2007 (VI revision)**
Date of Testing	15.12.2021

Sl no	Internal Diameter	Thickness of Pipe	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	150mm	20mm	4.8	1.65	17.36
2	150mm	20mm	5.6	1.72	16.85
3	150mm	20mm	5.2	1.79	17.72
Requirements as per IS-651:2007(VI Revision)	-----	----	Maximum 6%	Not Exceed 2.5%	Minimum 16kN/m

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22 Date: 16.12.2021

TEST REPORT ON CPVC PIPE

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: : IS 13360(Part3/Sec 1):1995
IS 15778:2007

Sample Identification: : CPVC pipe 20mm dia

Date of Testing : 16.12.2021

Sl.No	Test	Test Result	Requirements as per IS: 15778:2007
1	Nominal Outer Diameter (mm)	22.1	22.2 mm
2	Mean Outside Diameter (mm)	22.2	Min 22.1 mm Max 22.3 mm
3	Outside Diameter at Any Point (mm)	22.1	Min 22 mm Max 22.4 mm
4	Density	1465 Kg/m^3	1450 Kg/m^3 & 1650 Kg/m^3

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at tl
3. Any Query regarding the report must be reported within 30days from the date of testing.

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ವಾರ್ಡ್ ನಂ 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

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Job No.: CACE/BBMP/SSE/W.No.12/2021-22 Date: 24.12.2021

TEST REPORT ON COLOUR GLAZED TILES

*Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*Agency : **M/s. SS Enterprises (Prop. Sri Nagaraj M),** Contractor, Bangalore.

*Name of Work : Maintenance of Public toilets in Ward No.12 Shettyhalli, BBMP, Bangalore.

Technical Reference : IS: 13630 - 2006 - Method of Testing Colour Glazed Tiles
IS 15622 - 2006 - Specification of Colour Glazed Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 20.12.2021 to 24.12.2021

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I. MODULUS OF RUPTURE

Sl. No.	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	48.9	48.22	Average 47, indivisual minimum 44 N/mm^2
2	47.5		
3	48.2		
4	48.6		
5	47.9		

II. CHEMICAL RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	No visible effect	Class AA, min (13630 Part 8)
2	No visible effect	
3	No visible effect	
4	No visible effect	
5	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	Stain Removed by Water	Class 1, min (13630 Part 8)
2	Stain Removed by Water	
3	Stain Removed by Water	
4	Stain Removed by Water	
5	Stain Removed by Water	

Note:

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